

# 8059

Diag'd. on Diag. Ch. No. 78-4

Form 504

## U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

### DESCRIPTIVE REPORT

Type of Survey Air Photographic Shoreline

Field No. CS-283 Office No. T-8059

#### LOCALITY

State Virginia

General locality James River

Locality Warwick River to Skiffes Creek

194 1-'42

CHIEF OF PARTY

E.B. Lewey

LIBRARY & ARCHIVES

DATE January 9, 1950

6-1870-1 (1)

# 8059

## DATA RECORD

T- 8059

Quadrangle (II): Yorktown, Virginia (U.S.G.S.) Project No. (II):  
CS 283

## Field Office:

Air Photographic Party No. 2  
Baltimore, Maryland

## Compilation Office:

Air Photographic Party No. 2  
Baltimore, Maryland

## Instructions dated (II III):

March 26, July 15,) 1942  
September 30, November 14,)

Chief of Party: ~~E. B. Lewey~~  
~~L. W. Swanson~~

Chief of Party: Fred. L. Peacock

Div. of Photogrammetry  
Office Files

Copy filed in Descriptive  
Report No. T- (VI)

Completed survey received in office: 6-16-44

Reported to Nautical Chart Section: June 1944

Reviewed: 11-26-48 Applied to chart No. 529 Date: Aug 11, 1944

Redrafting Completed:

Registered: 12-7-49

Published:

Compilation Scale: 1:10,170

Published Scale:

Scale Factor (III): 0.983284

Geographic Datum (III): N.A. 1927 Datum Plane (III): ~~Mean Sea Level~~ MHW

Reference Station (III): Crawford, 1869, r. 1932, r. 1942

Lat.: 37° 07' 43.378" 1337.2 m. Long.: 76° 37' 12.729" 314.2 m. Adjusted  
(512.4) m. (1166.9) m. ~~Unadjusted~~

State Plane Coordinates (VI): Virginia, South Zone

X = 2, 547, 987.15'

Y = 295, 038.40'

Military Grid Zone (VI)



PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>James River</u> <u>Stage of Tide</u>	<u>Warwick River</u>
7748	11-26-41	11:00 A.M.	1:10,000	.26' above M.L.W.	.23' above M.L.W.
7777	11-26-41	11:57 A.M.	1:10,600	.56' above M.L.W.	.20' above M.L.W.
7778 & 7779	11-26-41	11:59 A.M.	1:10,000	.57' above M.L.W.	.21' above M.L.W.
7826	11-26-41	12:46 P.M.	1:10,000	.98' above M.L.W.	.36' above M.L.W.
7827	11-26-41	1:04 P.M.	1:10,000	1.12' above M.L.W.	.45' above M.L.W.

Tables of predicted tides, reference station Hampton Roads, Virginia. With time corrections for Hog Point and Warwick Tide from (III): River, Virginia  
Hog Point, 2.1 ft. Hog Point, 2.5 ft.  
Mean Range: Warwick River 2.5 ft. Spring Range: Warwick River, 2.9 ft.

Camera: (Kind or source) U.S. Coast & Geodetic Survey Nine Lens camera (focal length 8.25 in.) All negatives are on file in the Washington Office.

Field Inspection by: Lieutenant E. B. Lewey date: Summer & Fall of 1942

Field Edit by: None date:

Date of Mean High-Water Line Location (III): November 26, 1941.

Projection and Grids ruled by (III) Washington Office C.H.R. date: 12-11/42

" " " checked by: Washington Office date: 12-11-42

Control plotted by: Frederick Hildebrand date: 12-18-42;  
12-22-42

Control checked by: Louise Painter date: 12-23-42

Radial Plot by: Walter E. Schmidt date: 12-31-42;  
1-1-43

Detailed by: Dean E. White (Shoreline, rough draft) date: 1-13-43;  
3-9-43

Reviewed in compilation office by William H. VanLoon date: 4-19-43;  
4-30-43

*Manuscript*  
Elevations on ~~Field Edit Sheet~~  
checked by: None date:



STATISTICS (III)

Land Area (Sq. Statute Miles): None

Shoreline (More than 200 meters to opposite shore):  $9\frac{1}{2}$  Statute Miles

Shoreline (Less than 200 meters to opposite shore): 24 Statute Miles

Number of Recoverable Topographic Stations established: ~~10~~ 8

Number of Temporary Hydrographic Stations located by radial plot: 34

Leveling (to control contours) - miles: None

Roman numerals indicate whether the item is to be entered by, (II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname and initials (not initials only).

Remarks:



Summary to Accompany T 8059

T 8059, scale 1:10,000, is one of 40 shoreline surveys in Project CS-283 along the James River, Virginia.

Project CS-283 was originally planned as a planimetric mapping project but was limited to shoreline surveys only after War Mapping Project CS-289, covering practically all the James River, was undertaken.

Topographic Quadrangle T 8317 (Project CS-289) completely covers T 8059. The former was compiled in 1944 from 1:20,000 scale photographs taken in 1942 in contrast with T 8059, compiled in 1942-3 from 1:10,000 scale photographs taken in 1941.



## Field Inspection

Field inspection data for the area of T 8063 are contained in the "Report on Field Inspection of Air Photographs, James River, Newport News to Hopewell, Virginia" by Ernest B. Lewey, dated October 12, 1942, Filed in Division of Photogrammetry, General Files.



COMPILATION REPORT

26 CONTROL:

The control plotted and control transferred from adjoining map drawings consists of 10 U. S. Coast & Geodetic Survey triangulation stations, 9 U. S. Geological Survey primary traverse stations, and 1 U. S. Engineers triangulation station. The plotted stations have been shown with a black acid ink triangle. The stations transferred from adjoining map drawings have been shown with a red acid ink triangle. Field inspection stations have been substituted for two of these basic control stations. These field inspection stations have been shown by a small square outlined in purple ink on the glossy side of this map drawing.

The following control stations are within the detail limits of this map drawing:

- 6 U. S. Coast & Geodetic Survey triangulation stations.
  - Slide, 1938, r. 1942
  - Eustis, 1938, r. 1942
  - Tower near triangulation station Crawford, flag pole, 1938, r. 1942
  - Crawford, 1869, r. 1932, r. 1942
  - Fort Eustis aluminum water tank, 1932, r. 1942
  - Lee Hall black flat top water tank, 1932, r. 1942
- 6 U. S. Geological Survey primary traverse stations
  - No. 2, 1918, El. 21, r. 1942
  - No. 23P, 1918, r. 1942 (F.I.S. "HAR")
  - No. 26P, 1918, r. 1942
  - No. 29P, 1918, r. 1942
  - No. 36P, 1918, r. 1942
  - No. 11, 1918, r. 1942

The following control stations fall just outside the original detail limits of this map drawing:

- 4 U. S. Coast & Geodetic Survey triangulation stations
  - Tower south of Marshy Point, (F.I.S. "HUL")  
Warwick River, flagpole, 1938, r. 1942
  - Ulber, 1938, r. 1942
  - Deep Water Shoals L.H., 1870, r. 1942
- 3 U. S. Geological Survey primary traverse stations
  - No. 14, 1918, r. 1942
  - No. 17C, 1918C, r. 1942
  - No. 16, 1918C, r. 1942
- 1 U. S. Engineers triangulation station
  - Mulberry, 1930, r. 1938, r. 1942



27 RADIAL PLOT:

An individual plot was laid for this map drawing by the usual radial method. No templates were used.

Positions of principal points were determined by resection of the photographs under this map drawing. Positions of the secondary points were determined by radial intersection.

Flight lines were either held 100% or tangent in the plot.

A statistical report is submitted herein, stating the number of control stations available, how they held in the plot, and the number of principal and secondary points established.

The number of photographs was adequate.

The control identification was not as adequate as was desirable. Deep shadows and dense wooded areas caused considerable trouble.

The error of closure was negligible.

The control density was adequate.

Large purple ink circles indicate positions of principal points. Small double purple ink circles indicate positions of secondary points considered relatively strong with respect to the basic control. Small double green ink circles indicate positions of secondary points considered relatively weak with respect to the basic control.

28 DETAILING:

The shoreline and immediate adjacent culture has been detailed on this map drawing in accordance with the Director's letters dated March 26, 1942, July 15, 1942, September 30, 1942, and November 14, 1942, pertaining to this project, No. CS 283. Filed in Div. of Photogrammetry Office Files.

The standard symbols recommended by the Washington Office have been used to show the detail on this map drawing. Notes have been added on the overlay sheet wherever it was thought necessary in order that those concerned may be able to clearly interpret this map drawing.

Positions of landmarks for charts, non-floating aids to navigation, recoverable topographic stations, hydrographic stations, and minor detail points have been located by radial intersection unless previously established by triangulation. Small single purple ink circles have been circumscribed about points considered relatively strong with respect to the basic control. Small green ink circles have been circumscribed about points considered relatively weak with respect to the basic control.

The original detail limits of this map drawing have been



28 DETAILING: (Cont.)

extended and shown by a solid red ink line on the glossy side of the celluloid.

30 MEAN HIGH-WATER LINE:

The mean high-water line (firm ground) has been shown by a solid heavy weight black acid ink line, the center of which should be taken as the true position.

A solid light weight, black acid ink line, (marsh area) shows the limits of navigation and not necessarily the mean high-water line.

31 LOW-WATER AND SHOAL LINES:

Approximate limits of <sup>Shallow</sup> ~~shoal~~ areas have been shown by a dashed light weight, black acid ink line, and noted "~~Shoal~~" on the overlay sheet. <sub>Shallow</sub>

32 DETAILS OFF-SHORE FROM HIGH-WATER LINE:

Piling, marsh islets, etc., have been properly shown <sup>on</sup> this map drawing in accordance with the field inspection data.

33 WHARVES AND SHORELINE STRUCTURES:

All piers, wharves, bulkheads, outfall sewers, etc., have been shown on this map drawing. Notes have been added to the overlay sheet in order to call attention to important features.

34 LANDMARKS AND AIDS TO NAVIGATION:

*See Chart Letter 917 (49) Copy enclosed*

The three following landmarks have been shown on this map drawing by the triangulation symbol:

TOWER near  $\Delta$  Crawford, flagpole (Triangulation Station)  
TANK, water, black top, Lee Hall (Triangulation Station)  
TANK, water, Fort Eustis (Triangulation Station)

The position of "TOWER, near  $\Delta$  Crawford, flagpole" has been submitted on Form 567. Positions of the other two landmarks have not been submitted since they already appear on chart No. 529.  
*See Review Report.*

35 HYDROGRAPHIC CONTROL:

The positions of ten recoverable topographic stations, and thirty-four temporary hydrographic stations have been radially plotted on this map drawing. The temporary stations have been shown with  $1\frac{1}{2}$  mm black acid ink circles, and the recoverable topographic stations by  $2\frac{1}{2}$  mm black acid ink circles.

The numbers and descriptions of the temporary hydrographic stations, and the numbers, names and descriptions of the recoverable topographic stations have been compiled in a list and submitted herein. Two additional copies of the list have been submitted.



35 HYDROGRAPHIC CONTROL: (CONT.)

Positions and descriptions of the recoverable topographic stations have been submitted on Form No. 524.

The ten recoverable topographic stations are as follows:

Derrick, pier, south corner of - On T8070  
Tree, pine, ~~blaze on~~, 1942  
Pine, ~~long small, blaze on~~, 1942  
Tree, pine, ~~outer~~, 1942  
Tree, pine, ~~blaze on~~, 1942  
Barn, west gable ~~same as W. Gable~~, 1944  
Tree, pine, ~~blaze on~~, 1942  
Pier, ~~ruins of~~, 1942  
"Posted" Sign, 1942  
Tree, pine, ~~large double~~, 1942

37 JUNCTIONS:

Map drawing No. T-8071 to the N.W., junction in good agreement.  
Map drawing No. T-8058 to the north, no contemporary survey.  
Map drawing No. T-8060 to the south, junction in good agreement.  
Map drawing No. T-8070 to the west, ~~water area only~~. Junction ok.

38 CABLE CROSSING AREAS:

A cable area in the James River just off the east bank and extending in a northerly direction from the mouth of Skiffes Creek has been shown by dashed red acid ink lines, and a note appears on the overlay sheet. The limits of this area were traced from Chart No. 529. ~~Removed. See Review Report.~~

39 RECOMMENDATIONS FOR FUTURE SURVEYS:

This map drawing is believed to be complete in all details of importance for charting and no additional surveys are required.

It is believed that the probable error of radial points and well defined objects along the shore line is not greater than 0.5 mm. The error of inland radial points and details of importance is not greater than 1.0 mm.

44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

Yorktown Quadrangle, U. S. Geological Survey, date 1907 scale 1:62,500. Due to scale differences between this map drawing and the above mentioned Quadrangle, planimetry could not be satisfactorily compared in full detail.

However, considerable changes in the marsh area near the mouth of Skiffes Creek were noticeable, several small marsh islands having formed since the date of survey of the Quadrangle.

A long wooden pier extending into the James River at approximately latitude  $37^{\circ} 08' 15''$  does not appear on the Quadrangle.



44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES: (CONT.)

A concrete culvert (State Highway No. 168) across Lee Hall Reservoir does not appear on the Quadrangle.

45 COMPARISON WITH NAUTICAL CHARTS:

Chart No. 529, published September 1940, reissued March 25, 1942, scale 1:40,000. Due to scale differences between this map drawing and Chart No. 529, planimetry could not be satisfactorily compared in full detail. However, a visual comparison reveals all changes to be the same as those mentioned in paragraph No. 44 with the exception of the long wooden pier which is shown on the chart. Also, a wreck appearing on the chart at approximately latitude  $37^{\circ} 07.9'$  and longitude  $76^{\circ} 37.9'$  has not been shown on the Map Drawing in the western extended limits, because no field inspection data were furnished, and because the image of the wreck was not visible on any of the photographs. It is recommended that the operating hydrographic party verify the existence and charted position of the wreck.



Respectfully submitted,  
April 30, 1943

Dean E. White  
Dean E. White  
Asst. Engineering Aid

Compilation and Descriptive  
Report Reviewed by,

William H. VanLoon  
William H. VanLoon  
Pr. Photogrammetric Aid

Compilation and Descriptive  
Report Supervised by,

Walter E. Schmidt  
Walter E. Schmidt  
Asst. Photogrammetric Engineer

Approved and Forwarded,  
May 4, 1943

Fred. L. Peacock  
Fred. L. Peacock  
Chief, Air Photographic Party No. 2



DESCRIPTIONS OF  
TEMPORARY HYDROGRAPHIC STATIONS  
AND NAMES AND DESCRIPTIONS OF RECOVERABLE TOPOGRAPHIC  
STATIONS LOCATED BY RADIAL PLOT FOR MAP DRAWING

SURVEY NO. T-8059

PROJECT NO. CS 283

10 Recoverable Topographic Stations  
34 Temporary Hydrographic Stations

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44 Total Stations

Listed by: Kerwin B. Roche  
CopyChecked by: Mildred M. Trautman,  
Ruth E. Rudolph



TEMPORARY HYDROGRAPHIC STATIONS  
ESTABLISHED IN  
1942

- 80 · Pole on W gable house on pier.
- 81 · Dolphin SE of end of pier.
- 82 · Dolphin N of end of pier.
- 84 · Flagpole on observation tower at S end of pier.
- 85 · Sm metal water tank on beach near sm green house.
- 86 · Bend in wooden bulkhead at S edge point of marsh and at N end of broken concrete rip-rap.
- 88 · Center of sm platform in marsh at bend of shoreline N of the firing range.
- 89 · SE end of piling bulkhead under dirt bluff.
- 90 · S gable old house at entrance to creek.
- 92 · Large lone pine tree on bluff. Marked by a triangular blaze facing seaward.
- 127 (Same as 564-S) (Additional recoverable topographic station - 1944.)
- 129 Stake in marsh on N side entrance to sm stream. Marked by cloth.
- 131 · Blaze on W'ly of row of scat. pines on bank & just E of strip of marsh.
- 132 Stake on marsh on point. Marked by cloth.
- 134 · Outer end sm. landing gate on end of the landing.
- 135 · Outer end of sm. landing.
- 136 Stake on N side entr. of stream into E side Warwick R. Marked by piece of cloth.
- 138 Blaze on pine on bank off from dense growth of pines. Group sm. dec. trees to S.
- 139 Stake on S side stream entering Warwick River. Marked by piece of cloth.
- 140 Blaze on pine at W.L. at W end of trees along W.L.
- 142 Stake on sharp pt on S side of stream entering Warwick R. from W. Marked by cloth.



. TEMPORARY HYDROGRAPHIC STATIONS  
ESTABLISHED IN  
1942

- 143 Stake on sharp pt on W side crooked stream entering W side Warwick River. Marked by piece of cloth.
- 144 Stake on pt on N side entrance to sm. stream into E side Warwick R. Marked by cloth.
- 145 Same as additional recoverable topographic station 560-S. (1944)
- 146 Blaze on large pine at W.L. directly N of a marshy point in river.
- 148 Stake in center small grassy islet. Marked by cloth.
- 149 Stake on point on W side entrance sm. stream on N side Warwick R. Marked by cloth.
- 150 Stake at S side entrance very small stream at W side Warwick R. Marked by cloth.
- 151 SE gable white house over dirt pit.
- 153 Same as additional recoverable topographic station 597-S. (1944)
- 154 Stake on S side ditch entering Warwick R. from W. Marked by cloth.
- 155 Brick stack on laundry.
- 156 Blaze on gum tree on W in front of pines at edge of marsh on S side of creek.
- 158 Stake on sharp marshy pt in creek. Marked by cloth.



MAP DRAWING FOR SURVEY NO. T-8059

ADDITIONAL

WORK

1944



## DATA RECORD

T- 8059

Quadrangle (II): Yorktown, Virginia (U.S.G.S.) Project No. (II): CS 283

Field Office:  
Air Photographic Party No. 2  
Baltimore, Maryland

Compilation Office:  
Air Photographic Party No. 2  
Baltimore, Maryland.  
Instructions dated (II III):

March 26, July 15,  
September 30, November 14, 1942

Completed survey received in office:

Reported to Nautical Chart Section:

Reviewed:

Applied to chart No.

Date:

Redrafting Completed:

Registered:

Published:

Compilation Scale: 1:10,170

Published Scale:

Scale Factor (III): 0.983284

Geographic Datum (III): N. A. 1927

Datum Plane (III): <sup>MHW</sup>~~Mean Sea Level~~

Reference Station (III): CRAWFORD, 1869, r.1932, r.1942

Lat.: 37° 07' 43.378" (1337.2m) Long.: 76° 37' 12.729" 314.2 m Adjusted  
(512.4 m.) (1166.9 m) Unadjusted

State Plane Coordinates (VI):

X =

Y =

Military Grid Zone (VI)



PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	James River		Warwick River	
				<u>Stage of Tide</u>			
7748	11/26/41	11:00 A.M.	1:10,000	.26'	above M.L.W.	.23'	above M.L.W
7777	11/26/41	11:57 A.M.	1:10,000	.56'	above M.L.W.	.20'	above M.L.W
7778 & 7779	11/26/41	11:59 A.M.	1:10,000	.57'	above M.L.W.	.21'	above M.L.W
7826	11/26/41	12:46 P.M.	1:10,000	.98'	above M.L.W.	.36'	above M.L.W
7827	11/26/41	1:04 P.M.	1:10,000	1.12'	above M.L.W.	.45'	above M.L.W

Tables of predicted tides, reference station Hampton Roads, Virginia.  
Tide from (III); With time corrections for Hog Point and Warwick River, Virginia.

Hog Point, 2.1 ft.

Hog Point, 2.5 ft.

Mean Range; Warwick River, 2.5 ft.

Spring Range: Warwick River, 2.9 ft.

Camera: (Kind or source) U. S. Coast & Geodetic Survey nine lens camera  
(focal length 8.25 in.) All negatives are on file in the Washington Office.

Field Inspection by: Lieutenant E. B. Lewey date: Summer & Fall  
(Additional) Lieutenant Dale E. Sturmer - March 1944. of 1942

Field Edit by: date:

Date of Mean High-Water Line Location (III): November 26, 1941

Projection and Grids ruled by (III) Washington Office C.H.R. date: 12/11/42

" " " checked by: Washington Office date: 12/11/42

Control plotted by: Frederick Hildebrand date: 12/18/42  
12/22/42

Control checked by: Louise Painter date: 12/23/42

Radial Plot by: Walter E. Schmidt date: 12/31/42  
1/1/43

Detailed by: (Additional) Kerwin B. Roche date: 5/24 to 6/15/44

Reviewed in compilation office by: (Additional) date: 6/15/44  
J. E. Deal, Jr.

Elevations on Field Edit Sheet checked by: date:



STATISTICS (III)

Land Area (Sq. Statute Miles);

Shoreline (More than 200 meters to opposite shore);

Shoreline (Less than 200 meters to opposite shore);

additional  
Number of Recoverable Topographic Stations established: 12 11

additional  
Number of Temporary Hydrographic Stations located by radial plot: 110

Leveling (to control contours) - miles;

Roman numerals indicate whether the item is to be entered by,

(II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname  
and initials (not initials only).

Remarks;



#### ADDITIONAL WORK -- 1944

In accordance with the original instructions for Project C.S. 283 and various supplemental instructions, the field inspection at the lower part of the James River did not at first include complete field inspection of tributary streams. The field inspection of the main river and the mouths of all tributary streams was first completed to Richmond, Va. The completion of the field inspection of tributaries was then carried on from the upper river toward the lower river. The field inspection of tributary streams was completed in the spring of 1944.

In order to assure shore line and hydrographic information in advance of the needs of operating hydrographic parties working in the main river, Map Drawings for the areas of ten surveys were submitted in advance of completion with respect to tributary streams. Survey No. T-8059 is one of these.

The High-Water Line and marsh line (limit of navigation line) and adjacent planimetry of the portion of James River, falling within the limits of the Map Drawing and its tributaries to the head of navigation in the area, was originally compiled between December 1942 and April 1943.

Since that time the Compilation Office has been furnished the identification of twelve additional recoverable topographic stations and one hundred and ten additional temporary hydrographic stations. These were identified on 1:10,000 field photographs by numbers and their descriptions were listed in a field note book, Form 274, Vol. 2, by corresponding numbers. These stations were transferred to the 1:10,000 office photographs and radially plotted on the Map Drawing. Minor revision of detail was made to agree with the radially plotted positions of the additional temporary hydrographic stations.

Due to the density of lettering required to describe the 110 additional hydrographic stations



and the additional 12 recoverable topographic stations, a new overlay was made for this Map Drawing, omitting the descriptions of both the 1942 stations and the 1944 additional stations. The numbers only of both the 1942 stations and the 1944 stations are shown on the overlay. In place of showing the descriptions of the stations on the overlay two separate lists have been compiled, one for the 1942 stations and one for the additional 1944 stations. These lists show the numbers and descriptions of the temporary hydrographic stations ~~and the numbers, names and description of the recoverable topographic stations.~~

The list for the additional temporary hydrographic stations ~~and the additional recoverable topographic stations~~, established in 1944, is attached to this descriptive report of additional work for Map Drawing, Survey No. T-8059.

The list for the temporary hydrographic stations ~~and recoverable topographic stations~~, established in 1942, is attached to the descriptive report for Map Drawing, Survey T-8059 of work done in 1942.

Two additional copies of each list have been submitted.

Also shown on the overlay are notes which are deemed necessary to explain the symbols shown on the Map Drawing.

Form 524 is being submitted for 12 additional recoverable topographic stations. *One station removed. See Review Report.*

Several marsh areas in the south portion of the Map Drawing which were not detailed during the 1942 compilation work have been detailed.

The limits of navigation of Skiffes Creek and a branch of Skiffes Creek extend approximately one minute north of Latitude  $37^{\circ} 11' 15''$ , which is also the northern limits of this Map Drawing. These two streams are the only navigable waters in the area of Survey No. T-8058 covered by project instructions to date. They have been detailed on the north margin of the Map Drawing, Survey No. T-8059 and no separate Map Drawing will be necessary, for the area of Survey No. T-8058 in connection with Project C.S. 283.

Respectfully submitted:  
June 15, 1944

Kerwin B. Roche

Kerwin B. Roche  
Sr. Photogrammetric Aid

Additional work Reviewed  
and Supervised by:

J. Edward Deal, Jr.

J. Edward Deal, Jr.  
Asst. Photogrammetric Engineer

Approved and Forwarded:  
June 16, 1944

Fred. L. Peacock

Fred. L. Peacock  
Chief, Air Photographic Party No. 2



DESCRIPTIONS OF  
TEMPORARY HYDROGRAPHIC STATIONS AND NAMES AND  
DESCRIPTIONS OF ADDITIONAL RECOVERABLE TOPOGRAPHIC  
STATIONS LOCATED BY RADIAL PLOT FOR MAP DRAWING

SURVEY NO. T-8059  
PROJECT NO. CS - 283

RECOVERABLE TOPOGRAPHIC STATIONS ESTABLISHED IN 1944 -----	12
TEMPORARY HYDROGRAPHIC STATIONS ESTABLISHED IN 1944 -----	<u>110</u>
TOTAL STATIONS --	122

LISTED BY: KERWIN B. ROCHE  
COPY CHECKED BY: MILDRED TRAUTMAN

ADDITIONAL TEMPORARY HYDROGRAPHIC STATIONS

- 419-A-S 10 ft. bushy cedar-- base pricked. There is a 6 ft. stump 3 m. E. of tree and a patch of brush and a 12 ft. pine on the S.W. side of cedar.
- 420-S N. end of ruins of old pier.
- 421-S S.E. tip of grass at stream entrance.
- 422-S S. tip of most S'ly grass island.
- 423-S S.E. tip of grass at break between islands.
- 424-S S.E. tip of grass on S.E. end of island.
- 425-S N.E. tip of grass at break in marsh line.
- 426-S N.W. tip of grass at S. side of entrance to stream.
- 427-S 15 ft. cedar on E. end of wooded point.
- 428-S E. tip of grass on marsh island.
- 429-S N. tip of grass at entrance to small stream.
- 430-S S.E. tip of grass at break in marsh line.
- 431-S N.W. tip of grass at break in marsh between two wooded points.
- 432-S N.E. tip of grass at break in marsh line.
- 433-S Sharp N.E. tip of grass at entrance to small stream.
- 434-S N.E. tip of grass at entrance to stream at bend.
- 435-S N.E. tip of grass at small stream entrance.
- 436-S S.E. tip of grass at entrance to stream in marsh.
- 437-S S.W. tip of grass at break across stream from dead tree in water.
- 438-S N. tip of grass at entrance to small stream.
- 439-S Off shore end of wreck on shore.
- 440-S Center of ditch (entrance) on rounding point.
- 441-S S.E. tip of grass at break in shoreline.
- 442-S 35 ft. cedar tree leaning to westward over marsh.



# ADDITIONAL TEMPORARY HYDROGRAPHIC STATIONS

- 443-S Center of entrance to ditch on rounding point.
- 444-S N.W. tip of grass at entrance to small stream.
- 445-S N.E. tip of grass at entrance to creek.
- 446-S N.E. tip of grass at break in marsh line S.W.'ly across stream from small catwalk.
- 447-S Base of 60 ft. pine 1 m. from MEWL on wooded point.
- 448-S S.'ly tip of square point of marsh.
- 449-S Center of break in marsh line 6 m. S.W. of stakes in water.
- 450-S Center of narrow break in marsh line.
- 451-S Base of 20 ft. double cedar tree leaning over water.
- 452-S NE tip of grass at stream entrance.
- 453-S NE tip of grass at break in marshline. There is a small stream SE of the break.
- 454-S NE tip of marsh point.
- 455-S SW tip of grass at entrance to small stream.
- 456-S S tip of grass at entrance to small stream.
- 457-S SW tip of marsh at entrance to ditch.
- 458-S 20 ft. bushy cedar on point. (base.)
- 460-S W tip of marsh at break.
- 461-S NW tip of marsh at break.
- 462-S SE tip of marsh at break.
- 463-S NW tip of marsh island.
- 464-S Sharp NE tip of grass at entrance to stream in marsh.
- 465-S NE tip of grass on NE end of grass island in marsh.
- 466-S NW tip of grass at entrance to stream.
- 467-S S'ly tip of grass at entrance to stream.

ADDITIONAL TEMPORARY HYDROGRAPHIC STATIONS

- 468-S NW tip of grass at break in marsh line.
- 469-S SE tip of marsh 10 m. E of lone pine with cedar at base.
- 470-S Iron pipe on NW tip of marsh at stream entrance.
- 471-S N tip of grass at stream entrance.
- 472-S Center of break on SW side of rounding point.
- 473-S NE tip of grass at entrance to small stream.
- 474-S Center of break on S side of rounding point.
- 475-S NW tip of grass at stream entrance.
- 476-S SE tip of grass at break just E of bank.
- 477-S N tip of grass at break.
- 478-S W tip of grass at stream entrance.
- 479-S SW tip of grass at entrance to stream.
- 481-S SE tip of grass at stream entrance.
- 482-S W tip of grass on marsh island.
- 483-S NE tip of grass at stream entrance.
- 484-S NE tip of grass at break in marsh line.
- 485-S W tip of grass at forks of stream.
- 486-S SE tip of grass at break in marsh line.
- 487-S SW tip of grass at break in marsh line.
- 488-S NE tip of grass at small stream entrance.
- 489-S NW tip of grass at entrance to small stream.
- 490-S SE tip of grass at break in small marsh.
- 491-S N tip of grass at entrance to crooked ditch.
- 492-S Center of rounding point.
- 493-S SW gable of officers club -2 story white building with green roof and tall black chimney.



# ADDITIONAL TEMPORARY HYDROGRAPHIC STATIONS

- 565-S E tip of marsh at entrance to creek in marsh.
- 568-S SW tip of marsh at entrance to small creek.
- 569-S SE tip of marsh at entrance to small creek.
- 570-S NW tip of marsh at entrance to small creek in marsh.
- 571-S SE tip of marsh at entrance to ditch in marsh on upper side of inside turn.
- 572-S SW tip of marsh at entrance to small creek in marsh about 150 m. from fast land.
- 573-S Center of very small island at break in marsh.
- 574-S NW tip of grass at entrance to ditch.
- 575-S SE tip of grass at entrance to stream.
- 576-S NW tip of grass at entrance to ditch S of wooded point about 50 m. E of marsh.
- 577-S NW tip of grass at small ditch which enters marsh at a sharp angle.
- 578-S S tip of marsh at entrance to stream.
- 579-S E tip of small grass island.
- 580-S SE tip of grass at entrance to first small stream E of point.
- 581-S NE tip of grass at entrance to a small stream opposite a larger stream on N side of river.
- 582-S NE tip of grass at entrance to first small stream E of a rounding point.
- 583-S NW tip of grass at entrance to stream 20 m. W of wooded bluff.
- 584-S SE tip of grass at entrance to first small stream S of bushy and wooded point.
- 585-S E tip of grass at stream entrance 50 m. W of fish trap.

# ADDITIONAL TEMPORARY HYDROGRAPHIC STATIONS

- 587-S N tip of grass at ditch opposite rounding point.
- 588-S NW tip of grass at entrance to stream opposite wooded bluff.
- 589-S NE tip of grass at entrance to small stream E of wooded hummock.
- 590-S NE tip of grass at entrance to stream 60 m. S of stakes in stream.
- 591-S SE tip of grass at crooked stream entrance.
- 592-S NW tip of grass at break on S side of rounding point.
- 593-S Center of ditch on point.
- 594-S E tip of grass on prominent point of marsh.
- 595-S NW tip of grass at entrance to stream.
- 596-S E tip of rounding point of marsh.
- 598-S SW tip of grass at break in marsh line approx. 50 m. from wooded bluff.
- 599-S SW end of fence at SW corner of woods. There is another fence SE of the one picked.
- 600-S S tip of grass at small stream entrance.
- 601-S NE tip of grass at small stream entrance.
- 602-S SE tip of grass at small stream entrance just SW of woods.
- 603-S NE tip of grass at stream entrance just E of fast land.
- 604-S Southerly tip of square point of marsh.
- 606-S Upstream tip of pine brush overhanging water.



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

## NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED  
TO BE DELETED

**STRIKE OUT ONE**

Washington Office

November 8, 1919

I recommend that the following objects which have ~~never~~ been inspected from seaward to determine their value as landmarks be charted on ~~(related frame)~~ the charts indicated.

The positions given have been checked after listing by C. Theurer

**S. V Griffith** *Chief of Party.*

STATE Virginia - James River			POSITION						METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE		LONGITUDE		DATUM							
			°	'	D. M. METERS	°		'	D. P. METERS					
T-8059	Tower		37	07	1361.1	76	37	284.7	NA 1927	Triang. GP-310	1938			529
	Tank		37	09	229.4	76	34	761.4	"	Triang. GP-59	1932			529
	Tank		37	10	172.1	76	33	359.5	"	Triang. GP-59	1932			529
For landmarks and aids to navigation on the York River see Chart Letters 428 & 498 (44).														
Chart Letter 917 (49)														







LIST OF GEOGRAPHIC NAMES

Undisputed

- Chesapeake and Ohio Railroad
- ~~Denbigh (not shown)~~ ok
- ~~Fort Crawford (ruins) (not shown)~~
- Hickory Point
- James River
- Jones Run
- Lee Landing
- ~~Lee Hall Reservoir~~ City of Newport News Reservoir (C-H)
- Morrison Creek
- ~~Mulberry Island (town) (not shown)~~
- Mulberry Island (island)
- Mulberry Point
- ~~Old Fort McPherson (not shown)~~
- ~~Oriana (not shown)~~
- Shipyard Landing
- Stony Run
- ~~Warwick (not shown)~~
- Warwick River
- Va. No. 168 (not 158)
- U.S. No. 60
- Bailey Creek
- Island Creek
- Woods Creek
- Fort Eustis
- Skiffes Creek
- Chisholm creek
- Bailey Banks

Names preceded by •  
are approved. 11/26/48  
L. Heck.



LIST OF GEOGRAPHIC NAMES

Disputed

- Skiffes Creek (USBLN)
- Chisholm Creek ..

~~Skiffs Creek~~  
~~Blows Creek~~



Division of Photogrammetry  
Review Report of  
Shoreline Map Manuscript T-8059

Subject numbers not used in this report have been adequately covered in other parts of the descriptive report.

28 - Detailing

Symbolization of the grass in water area near the mouth of Skiffes Creek was changed to conform with standard specifications.

All notes and labels were added to the map manuscript from the overlay and the photographs.

The western limit of the map manuscript was changed to conform with the project layout.

34 - Landmarks and Aids to Navigation

See Chart Letter 917 (49) Copy enclosed.

A Form 567 was submitted for the following landmarks:

Lee Hall, Black, Flat Top Water Tank, 1932

Fort Eustis, Aluminum Water Tank, 1932

37 - Recoverable Topographic and Photo-Hydro Stations

The topographic station, NW Gale<sup>b</sup>, unpainted barn, 1944 was removed from the map manuscript. The pricking of this point was difficult on most of the photographs because of shadows.

The names of the topographic stations were changed to a short, descriptive term.

38 - State Grids

The state grid, Virginia, South Zone, was plotted on the map manuscript at a 5000 ft. interval.

40 - Geographic Names

Names were added to the map manuscript from the approved list submitted by the Geographic Names Section.

42 - Comparison with Contemporary Hydrographic Surveys

H-7087

1:10000

1945-7

Two sections of the shoreline at Lat.  $37^{\circ} 09.3'$ , Long.  $76^{\circ} 36.5'$  and at Lat.  $37^{\circ} 10.5'$ , Long.  $76^{\circ} 37.0'$  were changed by the hydrographic party. Apparently the shoreline has receded from 30 to 50 meters in these areas since the field inspection was made.



## 44 - Comparison with Existing Surveys

USGS <sup>Yorktown</sup> ~~Smithfield~~ Quadrangle 1:62500 <sup>1904-5</sup> ~~1907~~ Repr. 1944

T 1289	1:20,000	1873
T 1289a	1:20,000	1910
* T 8317	1:20,000	1944

Common features on all previous surveys are superseded by the map manuscript in common area *for nautical charting purposes.*

\* T 8317 is a more recent survey. Corrections were not brought forward to T 8059

## 45 - Comparison with Nautical Charts

Chart No. 529 1:40,000 1944 Corr. 1947

The cable area that had been transferred from the chart was removed from the map manuscript during review. The field inspector did not indicate a cable area.

A pier shown on the chart at the mouth of Skiffes Creek does not appear on the photographs.

## 51 - Application to Nautical Charts

The map manuscript has been applied to the nautical chart.

Reviewed by:

Under the direction of:

*Charles Theurer*

C. Theurer  
11/26/48

*A. V. Griffith*

Chief, Review Section *K.H.M.*  
Div. of Photogrammetry

Approved by:

*B.G. Jones 12/49*

Tech. Asst. to Chief  
Division of Photogrammetry

*H. Edmonson*

Chief, Nautical Chart Branch  
Division of Charts

*O.S. Reading*

Acting Chief,  
Division of Photogrammetry

*W.M. Scaife*

Chief, Div. of Coastal Surveys *W.M.*